

About Electronics & ICT Academy at PDPM IIITDM Jabalpur



The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies.

About Indian Institute of Information Technology Surat

Indian Institute of Information Technology Surat is an Institute of National Importance, established under the aegis of the Ministry of Education, Government of India. IIIT Surat is committed to excellence in teaching, research, innovation, and technology-driven nation-building. IIIT Surat actively promotes faculty-led research, student-driven innovation, and interdisciplinary collaboration to tackle complex, real-world challenges. Our focus bridges foundational knowledge with practical, industry-relevant solutions that align with national priorities in science, technology, and digital transformation.

Faculty Development Programme On

Advances in Millimeter-Wave and Terahertz: Sources and Electromagnetic Structures for Next-Generation Applications

The course aims to provide a strong foundation in the principles and recent advances of millimeter-wave and terahertz technologies, focusing on sources, electromagnetic structures, antenna design, and computational electromagnetics. The primary objective is to provide participants with both theoretical knowledge and practical expertise through electromagnetic design and hands-on training using advanced simulation tools.

Who can attend: Suitable for faculty from colleges, universities, and technical and professional institutes can attend. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Registration: Sept. 15, 2026

FDP Dates: Sept. 18–24, 2026 (Online)

Coordinators:

Dr. Matadeen Bansal, PDPM-IIITDM Jabalpur

Dr. Sivavenkateswara Rao V., IIIT Surat

Dr. Shikha Maurya, IIIT Surat

Dr. Akhilendra Pratap Singh, IIIT Bhopal

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Faculty Development Programme On

Advances in Millimeter-Wave and Terahertz: Sources and Electromagnetic Structures for Next-Generation Applications (September 18–24, 2026 (Online))

Jointly Organized by

**Electronics and ICT Academy
IIITDM Jabalpur**



and

**Indian Institute of Information
Technology Surat**



*An Initiative of the Ministry of
Electronics and Information Technology,
Government of India*



Faculty Development Programme
On
Advances in Millimeter-Wave and
Terahertz: Sources and Electromagnetic
Structures for Next-Generation Applications

September 18–24, 2026 (Online)

Resource Persons

- Dr. Arun Kumar Saurabh, MNNIT Allahabad
- Dr. Rajan Agrahari, NIT Patna
- Dr. Yuvaraj Sivasubramanian, IIITDM Kancheepuram
- Dr. Amit Kumar, NIT Srinagar
- Dr. Vikram Kumar, University of Delhi
- Dr. Shriman Narayan, RGNAU, Amethi

Coordinators

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Dr. Akhilendra Pratap Singh, IIIT Bhopal

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Course Contents

- Fundamentals of Computational Electromagnetics.
- Multifunctional Metasurfaces.
- Tunable and Reconfigurable Filter Design
- Reflectarray Antennas.
- Antennas for Biomedical and Biotelemetry Devices.
- 5G MIMO/Array Antennas for Beamforming and Spatial Diversity.
- Fast Wave and High-Power Microwave devices: Applications and Recent Advances.

Hands-On Sessions

- RF Filter Design and Simulation using ADS.
- Sensor Modelling and Simulation using CST Studio Suite.
- Design and Simulation of Multifunctional Metasurfaces.
- Computational Electromagnetics: Modelling, Simulation and Analysis.
- Reflectarray Antenna Design and Simulation.
- 5G/6G MIMO and Array Antenna Design for Beamforming.
- Hands-On Training on ADS and CST Studio Suite.

Programme Features

- Expert lectures on emerging millimeter-wave and terahertz technologies.
- Hands-on training using ADS and CST Studio Suite.
- Practical sessions on RF filters, antennas, sensors, and various THz electromagnetic Structures.
- Present Research trends in Biomedical and Biotelemetry Devices.
- Overview of various Microwave devices for defense and Space applications.
- Certificate on successful completion with full access to the course material.

Registration Details

- Registration link – Please fill out registration using the following link:
<https://forms.gle/eCAXKcyrpjHk52p49>
- Registration fee: 500/ for online participation
- Last Date for Registration: 15th September 2026

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	Indian Bank
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID:** iiitdmj@indianbk

- **QR Code:**



***Registration fee is non-refundable**